

CHARLES B. BOOTHE & CO. MINING AND MILLING MACHINERY RAILWAY SUPPLIES. LOS ANGELES, CALIFORNIA.

Mines and Mining

ASH PEAK DISTRICT.

The Commerce Mine is a Wonder With a Ledger Thirty-Five Feet Wide.

B. B. Adams, county treasurer, and A. G. Smith, visited Ash Peak district about twenty-five miles east of Phoenixville last Thursday. They went to look at the Commerce mine in that district which is owned by Messrs. Tong and Rodgers, says the Solomonville Bulletin.

In speaking of the mine Mr. Adams said it was the biggest showing on the surface he ever saw, which bears out the statement made by other parties who have visited this property. The ledge which is visible for miles is thirty feet wide on the surface. On the side of the mountain just under the ledge a shaft has been sunk sixteen feet. About fifty feet to the south an open cut is being run into the ledge. All of the work done has been in rich ore and a shipment will be made this week or next from Solomonville. The ore will be sent to the El Paso smelters. The ore is very rich, one assay giving returns of 165 ounces silver and one and one-half ounces in gold. At present six men are at work on the Commerce. A rock house 15x27 feet has been erected which will be used as winter quarters. A blacksmith shop has also been built. Mr. Smith is interested in several claims in the Ash Peak district and will shortly leave for Denver, where he will interest capital in the development of the new mining district. Phillips Bros. and party have returned from their hunting trip on Black river and will commence active work on the Barbara Ann and Little Oille where they have a working lease. The ore taken out will be shipped from this point.

George Cluff and Wiley Jones are interested in the Great Western and will commence work on their claim in a few days.

Dodge Green who has a Los Angeles party interested with him will commence work on some of his claims this week.

MINING NOTES.

J. S. Wallace, a prominent mining man from Denver, is in Prescott closing up a very important deal in the Big Bug district.

Joseph McAvin and Jack Martin of Prescott have purchased an interest in a property at Skull Valley and have let a contract to sink 100 feet.

Mr. Rosenberg, a mining man and capitalist of New York city, is in Prescott for the purpose of buying an important mining property on Big Bug.

Mr. James Douglas informs the Prescott Prospector that the mill at Senator is running steadily. That the latest work is the sinking of an eighty-foot winze below the 60-foot tunnel level with satisfactory results.

Mickey Dolan has recently bonded his properties situated at the foot of the Harcaruvar mountains, for a handsome sum.

Thomas Fox, who with Messrs. Nolan and O'Brien, have been driving a tunnel on the Collins property on Copper creek, is in town. This is a copper mine and Mr. Fox reports that the ore shows up well and the outlook is very bright.—Prescott Prospector.

Sheriff Munds Tuesday received a check for \$781.25, one-fourth payment of his interest in the Clift group claims, Verde district. The balance is to be paid within six months, at the rate of the above size check every sixty days.—Prescott Prospector.

The Empire mill at Walker and the Dividend mill near McCabe, have recently installed the Bartlett concentrating tables, and they are giving entire satisfaction. Another one of these tables is in successful operation at Chloride, Mohave county.—Prescott Prospector.

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var mountains, Yuma county, we are informed by Mr. Lee Perry, foreman of the Cunningham Pass mine, owned by Mr. Kelly of Chicago, that they are working twenty-five men, sinking four shafts and are taking out large quantities of high grade shipping ore.—Prescott Prospector.

The Little Annie, the property of Messrs. De Witt and Olds, situated on Copper Dagon divide about eight miles west of Prescott, is a promising prospect. The ore vein is about five inches wide and the assay made ran 89 per cent copper and 48 gold per ton, with some silver. There is about 250 feet of development work on the Little Annie and the ore taken from the claim is undoubtedly very rich.

Mr. Atkinson of Iron Springs, who owns two claims in the new platinum district, near Supai, twenty miles this side of Cataract canyon, and north of Williams, informs the Courier that the new town started at the mines is called Plattville, and that there are now 400 people on the ground. Plattville is seventy-five miles from Williams. The most direct route from Prescott to Plattville is via Ash Fork. Joe Owens owner of the lake is now en route to Plattville with 250 worth of provisions to start a boarding house. Mr. Atkinson has a letter from Mr. Shorpe, now in Los Angeles, who states that he has had chemical tests from ores across the entire stratum made with the following result: Aluminum 32 per cent, platinum \$180.50, and \$2.55 gold.

Mrs. Holborn is reported to have finally sold her copper claims near Safford to the Qualey brothers. Here is an instance of a plucky woman who has sacrificed the best part of her life in mining camps and who has at last met with success. We are glad to report the sale and hope the future life of Mrs. Holborn will be smooth sailing.—Globe Times.

NEW SMELTING METHODS

Johnson's Oil Burner Will Revolutionize Mining.

An invention which promises to revolutionize smelting and at the same time furnish a new market for crude petroleum was thoroughly tested and its workings fully demonstrated a few weeks ago in San Francisco before a large audience of scientists and prominent mining engineers.

Among those present were Mr. Rapp, of the Selby Smelting works, J. W. Waite, of the Western Refining Co., Mr. Stauffer Howard, Mr. Nathan Dodge, of the Spence Mineral Co., D. Martin, an Arizona mining man, and many others, whose technical knowledge of such things made the gathering a notable one.

The invention is known as Johnson's oil burner and the simplest principles of mechanism are involved in the device which affords the highest heat attainable from a composition of oil and air.

A small five-ton smelter was roughly constructed for the purpose of experiment. The first test was on a lot of copper ore belonging to Wm. Robinson of Barstow, California. This was followed by a lot of iron ore furnished by the Spence Mining Co.

The tests proved to the utmost satisfaction of the critical audience that the burner was all that had been claimed for it by its inventor.

Speaking of the invention the Daily Record of San Francisco, says:

"The device is simple in its workings and affords a saving over the use of coke of from 10 to 50 per cent on a San Francisco basis as to the price of the two fuels.

"It consists of a novel construction of mixing and burning tubes with a peculiarly shaped discharge nozzle, with the means such as a damper for regulating the quantity and force of air, which is supplied by an ordinary rotary blower. The construction is such as to cause a vaporization of the oil and mixture of the air, which is injected into the blower. It must be borne in mind that this device does not require the use of super-heated air or steam, but is only a combination of air, as it comes from the blower, and the oil that trickles down into the valves of the nozzle by gravitation. The result of this simple heat producing formula is wonderful in its intensity—a stream of fire that converts the most rebellious ore into molten metal can be thrown a distance of fifty feet, or by a simple turn of the damper regulating the air passages the flame may be reduced to flickering light.

"The burner can be attached to any smelter and can be operated by a child. It is in its economy and use of a portable fuel that the invention commends itself. In remote and inaccessible sections where the cost of transportation forbids the successful treatment of rebellious ores this device makes possible the profitable operation of a smelter. Using crude oil, the Johnson burner will revolutionize mining and bring into activity and successful operation thousands of mining properties of low-grade ore which are abandoned as affording no profit to work.

"It performs its task rapidly, and with the utmost economy; the oil flows down from a barrel by gravitation, the turn of a faucet and the fuel flow is shut off. An ordinary blower of eight ounce pressure, and there is the apparatus ready for work, or center shut off without loss of a drop of fuel or a moment's delay.

"It gives forth the highest heat possible to attain and it can be employed with success and economy under kilns, potteries, crucible furnaces, and in any furnace where high heat is required. It will burn cement, lime, brick, glass or asphaltum.

"It is already in use in the kilns of the Western Sugar Refinery, and although the invention, has only recently been brought to public notice. It is commended by every one competent to judge of its effectiveness in the uses to which it is proposed to be put.

"The invention is covered by patents No. 626,465, issued June 6, 1899, and by a later issue, No. 633,761 of September 26, 1899.

"These patents are owned by the Oil-Fuel Saving company, of 222 Safe Deposit building, San Francisco.

"The company is composed of Ed. Hirschfelder, an experienced mining man, president; Theodore Rotschild, of the Pacific Paper Box Factory; Ben Sloss, of the Sloss Crockery company; L. Wallenstein, who is also secretary and treasurer, and A. Johnson, the inventor.

"The company has set aside 50,000 shares of the stock, valued at \$1.00 par value per share as a treasury issue to be employed in furthering the use of the patent.

"The company is now ready to prepare estimates on the building and equipping of smelters, and have already received an order for a twenty-ton smelter which has been contracted for complete for the sum of \$3,000.

"At this rate, the use of the Johnson burner will become general, and crude oil will become a factor in rendering a profit from the millions of tons of low-grade rebellious ores which have been unworkable through lack of transportation or the expense attendant upon the use of coke as fuel."

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